

S/N 10/067,496

REMARKS:**I. Status of the Application.**

Following the above amendments, claims 1 – 58 are pending.

5 In the February 17, 2006 Office Action (the “Office Action”), new (formal) drawings were required, and corrected drawing sheets were required to show every feature of the invention specified in independent claims 1, 11, 22, 32, 42, 47 and 54 (Office Action, points 1 and 2). Claims 1, 5, 6, 8 – 12, 14, 18 – 23, 25, 29 – 33, 35, 39 – 42, 44, 45, 47, and 50 – 53 were rejected as anticipated under Section 102(e) based on
10 Chen et al. U.S. Patent Application Publication No. US 2002/0101909 (“Chen” or the “Chen reference”) (Office Action points 3 and 4). Claims 54 – 58 were allowed (Office Action, point 5). Claims 2 – 4, 7, 13, 15 – 17, 24, 26 – 28, 34, 36 – 38, 43, 46, 48 and 49 were allowable if rewritten in independent form (Office Action, point 6).

In this response, Applicants have amended claims 1 – 5, 11, 13, 17, 18, 22,
15 24, 28, 29, 32, 34, 38, 39, 42, 43, 45, 47 – 51 and 54 – 58, and have cancelled claim 19. Applicants respectfully traverse the rejection of claims 1, 5, 6, 8 – 12, 14, 18 – 23, 25, 29 – 33, 35, 39 – 42, 44, 45, 47, and 50 – 53 under Section 102(e). Applicants respectfully request reconsideration of the pending claims in view of the foregoing amendments and the following remarks.

20

II. The Objection to the Drawings Under 37 CFR 1.83(a) Should Be Withdrawn.

In response to the objections under 37 CFR 1.121(d) (Office Action point 1), replacement sheets of formal drawings have been submitted concurrently herewith.

The “at” symbol (“@”) in Figures 2 and 3 has been replaced with “AT” by
25 the professional patent draftsman, for reasons of clarity. No new matter has been introduced.

In response to the objections under 37 CFR 1.83(a) (Office Action point 2), pursuant to the provisions of 37 CFR 1.83(c), new Figures 6, 7 and 8 have been submitted, illustrating every claimed feature of the various independent system and
30 method claims. Support for the new Figure 6, illustrating a system embodiment, may be found throughout the specification and independent claims 1, 11, 22, 32, and 42. Support

S/N 10/067,496

for the new Figure 7, illustrating a first method embodiment, may be found effectively word for word in method claim 54. Support for the new Figure 8, illustrating a second method embodiment, may be found effectively word for word in method claims 47 and 48. No new matter has been introduced.

5 The specification has also been amended to include portions of the independent claims 1, 11, 22, 32, and 42 with reference to new Figure 6, and to include method claims 54, 47 and 48 with reference to new Figures 7 and 8. Non-substantive index numbers have been added to cross-reference the text with the Figures, and no new matter has been introduced.

10 Accordingly, on the basis of the above amendments to the specification and submission of formal drawings, with additional Figures 6 – 8 under 37 CFR 1.83(c), Applicants respectfully request that the objections to the drawings be withdrawn.

15 **III. The Rejection of Claims 1, 5, 6, 8 – 12, 14, 18 – 23, 25, 29 – 33, 35, 39 – 42, 44, 45, 47, and 50 – 53 Should Be Withdrawn.**

In the Office Action, claims 2 – 4, 7, 13, 15 – 17, 24, 26 – 28, 34, 36 – 38, 43, 46, 48 and 49 were allowable if rewritten in independent form (Office Action, point 6). Claims 54 – 58 were allowed (Office Action, point 5).

20 Independent claims 1, 22, 42 and 47 have been amended to incorporate the limitations of the corresponding allowable dependent claims 2, 24, 43 and 48. As each of these independent claims now incorporates this additional limitation, these independent claims and their corresponding dependent claims are in condition for allowance.

25 Allowed independent claim 54 and its corresponding dependent claims have been amended for clarity.

30 Independent claims 11 and 32 have been amended to focus on the use of configurable computational units which may be configured to implement the correlation functionality and PN sequence generation of the present invention, and also configured to implement at least one other, independent second function, with the number of configurable computational units so configured also based upon their availability. In addition, independent claim 32 claims the use of the same plurality of configurable

S/N 10/067,496

computational units to implement both the correlation functionality and PN sequence generation of the present invention.

The Chen reference does not address such use of configurable, multi-purpose computational units. Rather, the Chen reference solely utilizes a plurality of
5 fixed function and non-configurable rake fingers, which can only perform corresponding signal correlation functions. The Chen reference does provide for managing such fixed function resources by assigning them to different received signals based upon correlation energy levels and corresponding thresholds. Chen at paragraph 20. The Chen reference does not disclose both configuring these rake fingers for and assigning them to some
10 other function for other operational needs, such as when system acquisition or maintenance is no longer needed.

In contrast, an exemplary embodiment of the present invention, as claimed in amended claims 11 and 32, utilizes a plurality of configurable computational units which may be configured for more than one functionality, including not only correlation
15 functionality and PN sequence generation, but also another, second functionality. See also dependent claims 8, 30, 40, 51 and 58. The Chen reference, therefore, does not disclose and does not suggest all the limitations of the claimed invention. Independent claims 11 and 32 as amended are also allowable over the Chen reference.

The remaining prior art of record also does not disclose and does not
20 suggest all of the claimed features of the present invention. Chang et al. U.S. Patent No. 6,249,251 discloses a finger bank and a multipath combiner for a demodulator for a CDMA adaptive antenna array. Bierly et al. U.S. Patent No. 6,421,372 discloses a parallel digital matched filter for simultaneous correlations of a received signal against various replica offsets of its spreading sequence. McDonough et al. U.S. Patent
25 Application Publication No. 2004/0062300 discloses a searcher with batched processing, with search parameters written to memory.

In addition, identification of any individual part claimed is insufficient to defeat patentability of the whole claimed invention. See *In re Kotzab*, 217 F.3d 1365 (Fed. Cir. 2000). Accordingly, no *prima facie* showing of potential anticipation or
30 obviousness has been made, and any assertions to the contrary have been clearly rebutted. *In re Rouffet*, 149 F.3d 1350 (Fed. Cir. 1998); *In re Mills*, 916 F.2d 680 (Fed. Cir. 1990).

S/N 10/067,496

The rejection of claims 1, 5, 6, 8 – 12, 14, 18 – 23, 25, 29 – 33, 35, 39 – 42, 44, 45, 47, and 50 – 53 under Section 102(e) (or as obvious under Section 103), therefore, should be withdrawn.

5 As a consequence, the cited references do not disclose and do not suggest the present invention. The present invention, therefore, is not anticipated and is not rendered obvious by these references under Section 102 (and under Section 103), and the rejection of the claims should be withdrawn. In addition, because the remaining dependent claims incorporate by reference all of the limitations of the corresponding independent claims, all of the dependent claims are also allowable over the cited
10 references.

On the basis of the above amendments and remarks, reconsideration and allowance of the application is believed to be warranted, and an early action toward that end is respectfully solicited. In addition, for any issues or concerns, the Examiner is invited to call the attorney for the applicant at the telephone number provided below.

15

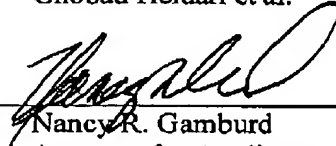
Respectfully submitted,

Ghobad Heidari et al.

August 16, 2006

20

By

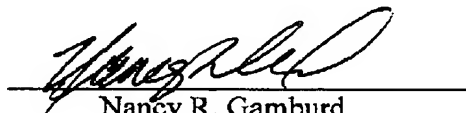


Nancy R. Gamburd
Attorney for Applicants
Registration No. 38,147
Phone: 312-876-0460
Fax: 312-276-4176

S/N 10/067,496

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that the foregoing Amendment And Response Under 37 CFR 1.111 And 1.115 (22 pages), Transmittal (PTO/SB/21) (1 page), Fee Transmittal (PTO/SB/17) (1 page), and Petition for Extension of Time (PTO/SB/22) (2 pages, original plus 1 copy) (26 total pages), for Ghobad Heidari et al., Serial No. 10/067,496, entitled "Method and System for Implementing a System Acquisition Function for Use with a Communication Device", have been transmitted by facsimile to the US Patent and Trademark Office to fax number (571) 273-8300 (Centralized Facsimile Number), on August 16, 2006.


Nancy R. Gamburd
Reg. No. 38,147